



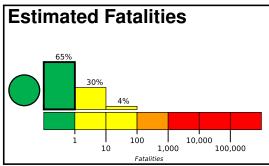


## **PAGER** Version 4

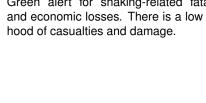
Created: 1 hour, 5 minutes after earthquake

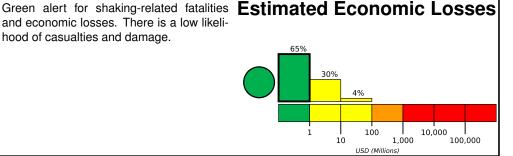
## M 4.1, 31km SSW of Smith Valley, NV

Origin Time: 2021-07-09 05:04:18 UTC (Thu 22:04:18 local) Location: 38.5325° N 119.4995° W Depth: 5.3 km



and economic losses. There is a low likeli-





**Estimated Population Exposed to Earthquake Shaking** 

ESTIMATED POPULATION EXPOSURE (k=x1000)  ESTIMATED MODIFIED MERCALLI INTENSITY		6,126k*	246k	1k	0	0	0	0	0	0
		ı	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVE	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
DAMAGE	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

<sup>\*</sup>Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan 5000 10000

Lovelock 17.9 ° W



Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

## **Historical Earthquakes**

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
2003-12-22	352	6.6	VI(8k)	2
1980-01-24	215	5.8	VII(35k)	1
1989-10-18	254	6.9	VIII(109k)	62

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

## Selected City Exposure

from GeoNames.org **MMI** City **Smith Valley** Ш Ш Smith Ш **Bridgeport** Gardnerville Ranchos Ш Ш Minden Ш Gardnerville Ш **Carson City** Reno Sacramento

Fresno bold cities appear on map.

Stockton

495k (k = x1000)

Population

2k

1k

1k

11k

3k

6k

55k 225k

466k

292k

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PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.